

## **Attachment H - Regional Board Requirements for a Nutrient Management Plan**

The Nutrient Management Plan (NMP) must be prepared by a registered professional engineer in the State of California or another qualified individual. The requirements of Order No. R9-2005-0095, Sections VI.C.3 and VI.C.5 shall be incorporated into the NMP. In addition, the NMP shall meet all requirements contained in NCRS Code 590.

### **A. Site Plan**

The site plan shall include the following:

1. Address and/or legal description of the property.
2. Name, address, and telephone number of the owner and operator of the property.
3. Total gross acreage of the property, showing property boundaries and all existing and proposed facilities, including buildings, storage areas, berms/levees, holding ponds, pumping facilities, culverts, drainage easements, disposal areas, cropland (whether farmed by the owner/operator or another party), etc. The site plan must include the overall dimensions, contours, a vicinity map, north arrow, and the date the site plan was prepared. The site plan shall be drawn on a standard blue print format using an appropriate scale that shows sufficient details of all facilities.
4. The site plan shall show all facilities necessary for containment and management of on-site storm water runoff as well as the interception and conveyance of any off-site storm water runoff through the property.
5. The site plan shall show the size, elevation, and location of all facilities proposed for containment of process generated wastewater and storm water runoff on the property (berm/levees, holding ponds, upstream diversion structures, ect.) Cross section details of these facilities shall be presented.
6. A description of existing and proposed disposal areas or cropland designated to receive wastewater.

### **B. Design Calculations**

The design calculations shall include:

1. Present and proposed animal population (numbers of each: milk cows, dry cows, calves, heifers, etc.) and the volume of wash water generated.
2. Amount of storm water runoff resulting from a 24-hour, 25-year storm event.
3. Total amount of wastewater (wash water and storm water runoff) to be contained on the property (A 60-day holding period is considered adequate).

4. Dimensions and capacity of the holding ponds.
5. Percolation rates, if used.

**C. Construction Specifications**

Construction specifications shall include the construction materials and method of compaction utilized to build retention ponds, berms/levees, and other containment facilities.

**D. Operation and Management Plan**

In addition to meeting the requirements contained in Sections VI.C.3 and VI.C.5 of Order No. R9-2005-0095, the operations and maintenance plan shall include:

1. A holding pond management plan (including records of maximum pond capacity prior to winter storms, installation and reading of depth markers in liquid manure storage structures, periodic dredging, periodic inspections to monitor for holes/cracks or breaks).
2. A land application plan (including periodic rotation of wastewater to disposal areas or croplands, procedures and results of soil analyzed from land application fields for phosphorus every five years, periodic inspections of land application equipment).
3. A maintenance plan for berms/levees and other containment facilities, including a proposed rodent control plan (periodic inspections to monitor for holes/cracks or breaks, etc.)
4. A manure management plan (including manure manifests and information about the nutrient content of the manure transferred to another person).